

# SCDXC Newsletter



The Southern California DX Club is a group of dedicated men and women active in the amateur radio community who enjoy communicating over the air with other radio amateurs around the world.

The SCDXC strongly supports the DX Code of Conduct. Please visit their website:

[www.dx-code.org](http://www.dx-code.org)

The SCDXC newsletter is published monthly and released to club members around the first of each month. Amateur and DX related letters, news and pictures are welcome and will be published as time and space permit.

Articles will be republished with recognition of the author and the club. Re-use of copyrighted materials require the original author's permission.

Any questions regarding this newsletter or its articles should be addressed to the Editor, Bill, N6RV at:

[n6rv@scdxc.org](mailto:n6rv@scdxc.org)

Club meetings are held on the second Thursday of the month at 7:00 PM except June, July, and December.

Please check the club web site for events and details at:

<http://www.scdxc.org>

If you are in the area please say hello on our repeater:

W6AM/R 145.48, (-) PL 100.0

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*If you need him  
get in there and*



## Announcements

### Fred Laun, K3ZO, SK

K3ZO, Alfred Albert Laun, III, of Temple Hills, Maryland passed away at 0003Z on January 4th. He was 85. Fred was preceded in death by his wife Samporn. On December 15th Fred became ill and then on December 18th was taken to Inova Fairfax Hospital. He had both an infection and Covid and "his condition worsened as time progressed", reported K4ZW, Ken Claerbout.

Fred was first licensed in the early 1950's. During the late 50's Fred attended at the University of Wisconsin and could often be heard operating the club station W9YT. In 1963 Fred moved to the Washington DC Area and was active as W9SZR/3. He joined the Potomac Valley Radio Club (PVRC) and was a frequent operator at multi-multi stations W3MSK (W3AU) and W4BVV.

Fred worked for the United States Foreign Service and had many posts including the Dominican Republic (HI8XAL), Thailand (HS3AL, HS5ABD and HS1ABD), Vietnam (XV4AL), Argentina (LU5HFI), Colombia (HK3/K3ZO and HK3NBB) and Nicaragua (SWL here). In 1973, while working in Cordoba, Argentina Fred was shot and kidnapped by Marxist guerrillas. He was eventually left bleeding wrapped in a blanket.

Fred was a member of the National Capitol DX Association (NCDXA) and was serving as President. He also headed up the W3 QSL Bureau for many years. Fred was a member of the CQ Contest Hall of Fame as well a member of the CQ Contest Committee. He was a longtime FOC Member (928), A1-Operators Club and a director of the YASME Foundation. Fred did not want to have a formal funeral or ceremony. Amateur Radio has truly lost a giant in contesting, DXing and Amateur Radio.



## 2023 Membership Dues!

It is time to pay your 2023 membership dues! Next month we will list the people who have not yet paid their 2023 dues. If you think there is an error and you have paid let the treasurer know right away!

Please mail your check to the treasurer, N6RV, address is on QRZ.com, or use the website below:

<http://www.scdxc.org/membership.html>

## Announcements

### We Are Live!

## The February General Meeting

**February 12, 2023 7:00 PM PST  
At WEMS**

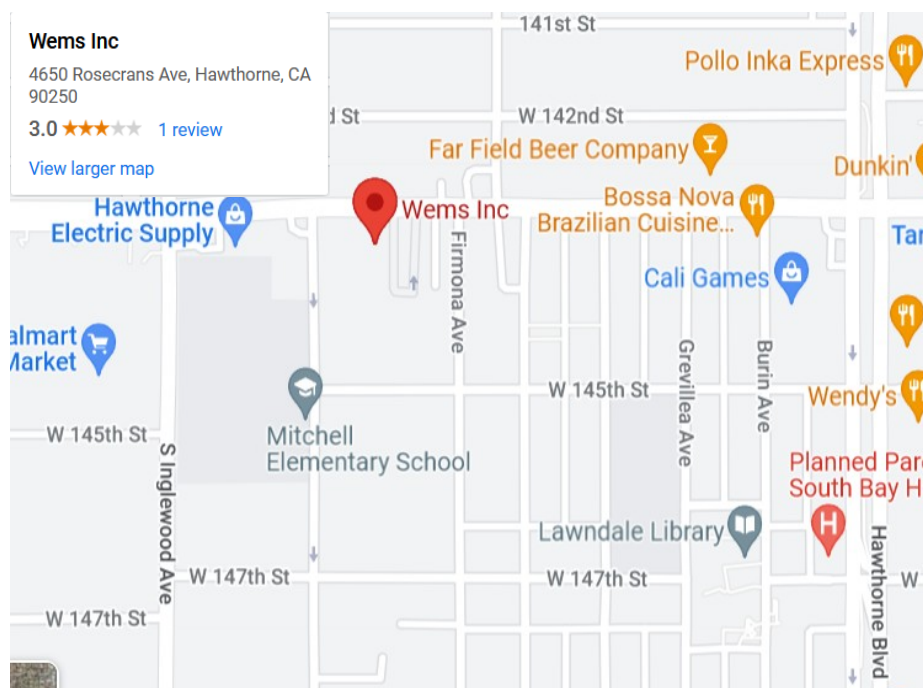
**Presentation : Solar Cycle 25 Interpreting the Numbers  
Carl Luetzelschwab, K9LA**



**Come Join Us!**

We will also stream the meeting on Zoom You can watch at the link below:

### [SCDXC Club Meeting](#)



## 2023 Board of Directors

### President

John Schroeder, N6QQ

### Vice President

Howard Elovitz, W6FL

### Treasurer

Bill Kendrick, N6RV

### Secretary

Don Minkoff, NK6A

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### Director

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### Director

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### Repeater Chair

Chip Angle, N6CA

### Newsletter Editor

Bill Kendrick, N6RV

### Webmaster

Jim Shryne, N6DHZ

# From the Desk of the President John Schroeder, N6QQ

Greetings for the month of February

Latest news on FT8WW Crozet. You can now order your QSL card via Club Log. Cost for direct payment via PayPal (or credit card) is \$5.00 EUR. The QSL manager will also send your QSL info to LOTW. They can send the QSL card via bureau. I do not know of the cost.

Latest news from Paul, N6PSE - Visalia Convention is looking good. 226 have sign-up.

Do you like to study something new ? Take a look at this latest Earth information.

Earth's inner core has recently stopped spinning, and may now be reversing the direction of its rotation according to a surprising new study that probed the deepest reaches of our planet with seismic waves from earthquakes.

The mind-boggling results suggest that Earth's center pauses and reverses direction on a periodic cycle lasting about 60 to 70 years, a discovery that might solve longstanding mysteries about climate and geological phenomena that occur on a similar time frame, and that affect life on our planet.

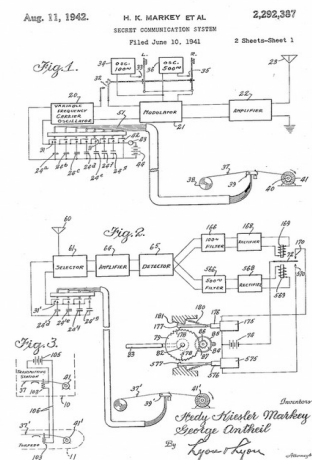
Band conditions are great. Lots of DX everywhere.

See you at the next meeting.

**73 de John, N6QQ**  
**President, SCDXC**

[N6QQ@scdxc.org](mailto:N6QQ@scdxc.org)

Does anyone know this patent? Ans: pg. 19



## February Calendar

February	4	Mexico RTTY International Contest
February	4	10-10 International Winter Contest SSB
February	4	European Union DX Contest
February	9	Club Meeting (WEMS)
February	11	CQWW RTTY WPX Contest
February	18	ARRL International DX Contest CW
February	23	CQ 160 Meter Contest SSB



## VP Corner February 2023

### Howard Elovitz, W6FL

I want to thank Mel K6SY, for his excellent presentation on RF radiation measurements, required to renew our Ham license. Mel's examples, based on his own station makes the process easier to understand and complete.

For our February 9th meeting, Carl Luetzelschwab, K9LA will discuss the Solar numbers and how to interpret them as it pertains to Amateur Radio Propagation.

A brief bio for Carl follows: Carl began short wave listening in the late 1950's. He received his Novice license (WN9AVT) in October 1961 and selected K9LA in 1977. Carl is an electrical engineering graduate of Purdue University and was a RF design engineer for Motorola and Raytheon until his retirement in 2013. Carl enjoys propagation research, DXing (Top of the Honor Roll), Contesting (Past editor of ARRL's National Contest Journal (NCJ) from 2002-2007, playing with antennas and restoring vintage equipment. Carl was the Vice Director of ARRL Central Division from 2017-2021. He now serves as the Director of the Central Division and is on several of the ARRL committees.



This will be a Zoom presentation; however, it would be nice to see a larger turnout at the meetings.

After working 21,000 stations in 3 weeks FT8WW is off the air. They are trying to get permission to extend the operations. Thierry has given many Hams an ATNO.

Bouvet team is on the way to the island. Looking forward to getting another ATNO.

Till next month.

**73 and Good DXing!**  
**Howard, W6FL**

[W6FL@scdxc.org](mailto:W6FL@scdxc.org)



***Every DXpedition is the WORST EVER....***

***UNTIL IT'S IN YOUR LOG***

## Rumors on the Band

Have you worked Bouvet yet? Keep an ear open! Thierry, FT8WW is now past his activity window. The scientific is running a magnetic experiment. He is requesting an extension after the experiment is over. His boat leaves on March 10th.

QTH	Call	Start Date	End Date	Information
Crozet	FT8WW	Now	14-Jan	F6CUK FT8 CW possible extension in Feb
Bouvet	3Y0J	Now	28-Feb	LA7GIA Team 150-10m CW SSB Digi
Burundi	9U4WX	4-Feb	26-Feb	OK2WX 80-10m CW, SSB
Solomon Is	H44MS	15-Feb	30-Apr	DL2GAC HF SSB
Cocos Keeling	VK9CVG	17-Feb	24-Feb	G0VJG 80-10m SSB FT8
Agalega	3B7M	24-Feb	5-Mar	OK Group 160-6m CW SSB FT8 RTTY
Br. Virgin Is	VP2V/AA7V	16-Feb	20-Feb	160-10m CW
Vanuatu	YJ0A	9-Feb	23-Feb	W7Yaq K7AR
San Andres	5J0EA	27-Feb	7-Mar	HK3EA (5J0EA) HK3MKQ (5K0VT) HF

### ClubLog Top 50 Most Wanted Entities

- 1 P5 DPRK (NORTH KOREA)
- 2 3Y/B BOUVET ISLAND
- 3 FT5/W CROZET ISLAND
- 4 BS7H SCARBOROUGH REEF
- 5 CE0X SAN FELIX ISLANDS
- 6 BV9P PRATAS ISLAND
- 7 KH7K KURE ISLAND
- 8 KH3 JOHNSTON ISLAND
- 9 3Y/P PETER 1 ISLAND
- 10 FT/G GLORIOSO ISLAND
- 11 FT5/X KERGUELEN ISLAND
- 12 YV0 AVES ISLAND
- 13 VK0M MACQUARIE ISLAND
- 14 ZS8 PRINCE EDWARD & MARION ISLANDS
- 15 KH4 MIDWAY ISLAND
- 16 PY0S SAINT PETER AND PAUL ROCKS
- 17 PY0T TRINDADE & MARTIM VAZ ISLANDS
- 18 KP5 DESECHEO ISLAND
- 19 VP8S SOUTH SANDWICH ISLANDS
- 20 KH5 PALMYRA & JARVIS ISLANDS
- 21 ZL9 NEW ZEALAND SUBANTARCTIC ISLANDS
- 22 FK/C CHESTERFIELD IS.
- 23 EZ TURKMENISTAN
- 24 VK0H HEARD ISLAND
- 25 YK SYRIA
- 26 FT/T TROMELIN ISLAND
- 27 ZL8 KERMADec ISLAND
- 28 JD/M MINAMI TORISHIMA
- 29 KH8/S SWAINS ISLAND
- 30 KH1 BAKER HOWLAND ISLANDS
- 31 XF4 REVILLAGIGEDO
- 32 VP8G SOUTH GEORGIA ISLAND
- 33 KH9 WAKE ISLAND
- 34 SV/A MOUNT ATHOS
- 35 T33 BANABA ISLAND
- 36 VK9M MELLISH REEF
- 37 VK9W WILLIS ISLAND
- 38 T31 CENTRAL KIRIBATI
- 39 FO/C CLIPPERTON ISLAND
- 40 FT/J JUAN DE NOVA, EUROPA
- 41 TI9 COCOS ISLAND
- 42 HK0/M MALPELO ISLAND
- 43 KP1 NAVASSA ISLAND
- 44 ZD9 TRISTAN DA CUNHA & GOUGH ISLANDS
- 45 FT5Z AMSTERDAM & ST PAUL ISLANDS
- 46 H40 TEMOTU PROVINCE
- 47 70 YEMEN
- 48 VP80 SOUTH ORKNEY ISLANDS
- 49 XZ MYANMAR
- 50 CY0 SABLE ISLAND

### CADXA Most Wanted DXCC Entities

### ClubLog Most Wanted DXCC Ranking



## DX Standings

Thanks to N6RV, N6WS, and W6RW for submitting their latest standings.

If you noticed the lists have shrunk. In January we went through and deleted all who were not members in 2021. In other words, if you paid no dues past 2021 you are off the list. We also updated the standings using the ARRL DXCC lists and the ClubLog list. If we did make a mistake let us know right away and we will correct.

We will be purging the lists every January leaving only members who paid the year before and beyond. You have a year to catch up!

Is anyone else working new ones? Send in your updates!

Send any updates to:

[N6RV@SCDXC.org](mailto:N6RV@SCDXC.org)

### SCDXC WAZ and DXCC Standings

The first WAZ column is the confirmed zone count on 10 bands 160 - 6 (less 60 meters). The second column is the regular 5BWAZ confirmed count. The following are the codes that follow the two columns and indicate the awards:

M Mixed  
P Phone  
C CW  
R RTTY

SCDXC Lifetime Standings									
Rank	Call	Total	Current	Slots	Rank	Call	Total	Current	Slots
1	W6KH	389	340		44	W6DR	336	331	1812
2	JA1BK	383	340	3147	45	AA6PW	330	330	1766
3	K6YRA	378	340	2777	46	N6AX	327	327	1198
4	OH2BH	378	340		47	K7MY	322	320	1281
5	N0FW	372	340	2978	48	N6DHZ	316	310	1421
6	K6YUI	366	340	2598	49	NK6A	316	310	957
7	NS6C	361	340	2592	50	N6GP	314	292	1583
8	W6SR	359	340	2799	51	N6VNI	312	310	1514
9	K6FG	357	340	2774	52	W6HB	311	311	1029
10	N6RV	356	339	2374	53	N6WT	304	304	1879
11	W6OU	356	337	1599	54	K6IRD	298	292	649
12	K6GXO	355	340	2633	55	W6ZL	285	289	1057
13	K5KT	355	340		56	N6PM	280	280	1861
14	W6TJI	355	338		57	WA6WXD	274		
15	N6QQ	355	338	2315	58	N6AA	247	247	
16	W6IRD	354	338		59	KQ6K	243	243	
17	W8DX	353	340	2449	60	N6VOH	243	222	
18	N6WS	351	339	2557	61	N6HE	238	229	746
19	W6RW	352	338	2197	62	NE6V	237	213	917
20	W6TK	351	340	1781	63	K6JEY	234	234	
21	N7NR	354	331	1288	64	K6AFW	204	204	917
22	W6FL	350	336	1486	65	W6KC	203	202	743
23	W6KK	349	340	1921	66	WB6DJI	200		589
24	W6VX	349	339	2772	67	N6LL	169	169	
25	N6HC	349	340	2388	68	W6GA	168	169	
26	KJ6Y	348	340	1312	69	KC6TOD	166	166	
27	WA5VGI	348	340	2763	70	KF6I	166	166	200
28	K6ND	348	340	2790	71	KK6M	162	162	
29	N6IC	347	336		72	K7LA	160	160	466
30	SM5GMZ	346	335	2454	73	W6QE	149	149	365
31	KR6C	345	339	2135	74	AB9A	141	141	224
32	K6RO	346	338	2256	75	WC2S	139	139	
33	N6PEQ	345	338	2030	76	N6CA	133	133	386
34	N6HY	344	337	2424	77	K9TAD	134	134	
35	AI6Z	342	335	2174	78	NZ6L	129	128	158
36	W6SW	339	331	540	79	K6DW	129	129	302
37	K6JW	338	332	1151	80	WD6Y	124	124	274
38	N6MG	338			81	AB6A	109	109	287
39	K4ST	337	333	1843	82	K6BBC	103	103	216
40	K2IXQ	337	332	1774	83	N6YQ	100	100	
41	N6MXU	336	331	1416	84	WA6MEM	100	100	
42	K6SY	336	330	1070	85	W6CCC	95	95	211
43	K4SX	333	329	1737	86	K6YIC	43	43	92

WAZ Standings				
Rank	Call	12B	5B	Awards
1	N0FW	424	200	M/P/C/R/5
2	WA5VGI	413	200	M/P/C/R/5
3	K6ND	411	200	M/5
4	N6WS	409	200	M/P/C/R/5
5	W6SR	384	200	M/P/C/5
6	K6FG	373	200	M/P/C/R/5
7	SM5GMZ	371	200	M/P/C/5
8	W8DX	357	200	M/5
9	N6AW	355	200	M/P/C/5
10	K6YUI	353	200	M/P/C/R/5
11	W6RW	344	200	M/P/C/5
12	K6YRA	337	200	P/5
13	W6VX	352	199	M/P/C
14	K6GXO	358	198	M
15	W6TK	367	198	
16	N6HY	365	196	M/P/C
17	N6RV	380	195	
18	K6RO	368	194	M/P/C
19	AI6Z	321	194	
20	NS6C	368	193	M/P/C/R/5
21	KR6C	342	192	
22	N6WT	369	190	
23	N6QQ	320	189	
24	W6DR	316	186	
25	N6GP	308	185	
26	W6OU	304	184	
27	K4ST	308	183	
28	AA6PW	298	181	
29	N6VNI	291	181	
30	K6SY	299	178	
31	KJ6Y	237	173	
32	N6DHZ	326	169	
33	N6HE	253	168	
34	N6PM	358	187	
35	W6ZL	242	166	M/P/C/R
36	K6JW	244	158	
37	NK6A	290	157	
38	W6KC	217	156	
39	W6FL	161	153	
40	NE6V	256	149	
41	K7MY	213	142	
42	K6IRD	220	130	
43	W6SW	154	126	M/P
44	W6IRD	102	112	
45	K6VC	145	96	
46	WD6Y	153	99	
47	K9TAD	94	81	
48	K6FOD	33	27	
49	N6HC	17	13	



## TN8K DR Congo

The 8 man CDXP group that activated DR Congo were prolific to say the least. So much so that at the time of this article they ranked very high on the ClubLog standings. In fact, they had worked several entities that no one else had. To be accurate several unique entities worked them!

As you can see from the pictures they were antenna poor and boy were their signals loud!!! These guys came prepared and pulled off a great DXpedition with 164,946 QSOs. That is one for the records!





**A SURVEY OF TODAY'S DX HEROES: THIERRY MAZEL, F6CUK & PAUL GRANGER, F6EXV****By Martti Laine, OH2BH and Ralph Fedor, K0IR**

When the large supply ship M/S Marion Dufresne approached Crozet Island just before Christmas of 2022, one of the greatest gifts ever given to amateur radio was on board. A man named Thierry Mazel, F6CUK, and his passion to put Crozet Island on the air and end the 13 years of its silence on the amateur radio bands. Thierry worked closely with his friend Paul Granger, F6EXV, to accomplish his dream. So we now remotely review this man and his partner after his first twenty-one days stint on this lonely island.



So who are these men? What motivated and drove them? What is Thierry experiencing on Crozet. We asked them and here is what they had to say.

- **Thierry, you are now the subject of everyone's conversation. You are seen as today's Robinson Crusoe! Tell us about yourself and your family. Are you living your dream and seeing your legacy written into amateur radio's history? Is Crozet a lonely place for you or a nucleus of new friends?**

Hello to all from Crozet ! I was born in 1957 and licensed in 1975. I am married to a very understanding wife, who allows me to be away from home for such a long time. I am retired, after spending most of my career working in computer services at Michelin, the pneumatic manufacturer. My first DXpedition was to Saint Barthelemy island in 1977, before it was a separate entity. The DX bug bit me hard and quickly. I have returned to Saint Barthelemy a couple of times since, and I have organized and operated from several IOTA expeditions around France. I am not lonely on Crozet. There are 34 of us on the island and we have many different interests — scientific, professional, and now amateur radio.

- **You have been very consistent with your operating schedule. As of today, January 14, you have made 21,294 QSOs with 10,999 unique contacts and a very good balance of QSOs with North America, Europe, and Asia. Thank You! Do you find it tiring to have the same schedule every day? How can a man endure this? Which mode of operation do you prefer? CW, FT8 or SSB? What else you do daily on the island, if any? Is there a gym or library and how you get fit when not on radio?**

The first objective of this trip was to give an ATNO to as many people as possible. I discovered that operating the same schedule every day has given all parts of the world the best chance for a contact with Crozet. I take advantage of the 5 hours every day when I may not transmit. This is when I sleep. The pileups are enormous and continuous. Facing them is tiring, but also energizing and satisfying, for I know my QSOs are creating smiles. However, I do not know how long I can maintain this pace and rhythm.

Normally my preferred mode is CW. But signals arriving here at Crozet are very often weak which makes FT8 the only option most of the time. Due to the weak signals, I have put SSB aside. Perhaps I will reconsider it, as well as additional bands, should I be granted an extension of my operation.

There are 34 of us on the island – a cook, scientists, nature observers, maintenance workers, and one amateur radio operator. We eat meals together and share basic tasks like cleaning the dining room. My life here is operating, eating, participating in basic tasks, spending a little social time, sleeping, and trying to take a few photos of this unique place.

Some interesting info : ever since I have been on the island, there has not been a single day without wind, varying from 30 KMH to gusts of 140 KMH. And this is summer time in the southern hemisphere !

- **The IPV limitations of your permit only allowed you to operate HF until January 14th. Are you hopeful that you maybe able to extend your HF radio operating? Are you preparing for another miracle for your journey?**

As of press time, the extension has not been granted, but since my transmissions do not interfere with the geomagnetic measures taken every day on the island, I am very optimistic about getting the extension. It depends on the French bureaucracy. In the very unlikely event that I would not get it, I could either go to the beach (Not for me, too cold!!), tour the island, or have additional QO-100 schedules with schools in France and Africa.

- **It is often a difficult challenge to negotiate administrative bureaucracy when seeking permission for a DXpedition a restricted islands. Sometimes the multiple requests these people receive from hams attempting to visit these places are viewed as a “nuisance,” and the easiest thing for administration to do is just say, “No.” What advice would you give to hams making requests to visit such sensitive areas? Do you have any tricks to share?**

I imagine every place is unique in terms of getting permissions. For Crozet, we realized that a group of hams would not get permission, while a single person might. In addition, we introduced the satellite link and schedules with boys and girls at schools so they could learn about the TAAF and see what people do in the French Southern Lands . These things helped us gain support and ultimately get permission to spend three months at Crozet. Getting the radio license was the easy part.

- **Paul, F6EXV, you are a partner with Thierry in conducting his one man orchestra and relaying information. This goes as far as sorting out real QSOs from those generated by pirates? Tell us about your job. Do you ever rest? If you could wish or ask something from amateur radio community what would it be?**

Hello all ! Well, the very first ideas of Thierry going to Crozet came up at a meeting we had about two years ago. Since Thierry's English is limited, I was nominated co-organizer, advised Thierry on a few aspects, gave my point of view on some email exchanges with the TAAF prefect and other people, and wrote the document that would be sent to the major DX foundations and clubs around the world to help finance such an expensive trip. Both Thierry and I were also in contact with several commercial sponsors. I will also do the QSLing, as I have always enjoyed doing this, and will do my best to satisfy impatient DXers hoping to see the long-awaited new entity confirmed with a card. I am also answering many emails received daily about the aspect of this activity, including log check requests. So indeed I never stop.

There is one record that Thierry will have beaten for sure: The number of pirates that who disturbed the DX community. I must admit I will never understand the kind of joy these people are getting.

If I had a wish about the radio amateur community, I would say that I hope we would all come to better understand how it is on the other side of a pileup, and refrain from making insults on the clusters, without knowing what is happening on the DXpedition end.

- **Ham radio operators were once welcomed on remote island bases. They were a source of communication with the outside world though messaging and phone patches. Satellite phones, the internet, and modern messaging devices have changed all that. Hams are no longer needed for communication. How can DXpeditions still add value when they visit places like Crozet?**

I often say that our hobby cannot be understood, except by radio amateurs. And in fact, I think DXers themselves know little about the strange places we visit. Getting someone to be on the airwaves gives these islands an exposure, and helps people, even DXers, learn about them. In the Crozet example, the addition of the QO-100 schedules with schools was of great interest to the TAAF, and was one reason why they granted permission for amateur radio from Crozet.

- **DXpeditions requesting visits to remote, sensitive islands are often viewed as a threat to the environment. What steps did you have to take to prove that your DXpedition would not disrupt wildlife, effect the surface of the island, or interfere with flora and fauna? Were those orders harsh or difficult to meet? Did they eliminate such things like beam antennas? Did this compromise your DXpedition?**

It is obvious that a place like Crozet, which is on the UNESCO World Heritage, has many limitations in terms of impact of any visitors on the island. Two aspects made it impossible to get permission for any sort of beam antenna: bird protection, and high winds. The height of the antenna was also limited, and you can't imagine the number of email exchanges to finally get to an agreement.

- **There are many parts to a DXpedition — planning, equipment, the travel and people you meet along the way and interacting with the local population or environment and making the QSOs and knowing that your audience is happy. All the pieces form a very human, cohesive, and unique experience. There are changes in the winds – remote operations and a box of equipment placed on an island and operated remotely. After experiencing being on the island of Crozet and part of its population and environment, are you happy you did it this way and not pushing the traditional envelope of DXpedition?**

I knew even before getting to Crozet that it would be impossible to please everybody. The demand and expectations are so high that many forget it is a one-man effort, aimed at providing ATNOs. We hoped to show the TAAF what amateur radio is, and are hoping that this operation will help others to happen in the future from these most needed TAAF islands.

- **In 2014 a DXpedition team landed on Amsterdam Island and enjoyed tremendous support and hospitality from TAAF and the French team on Amsterdam. It fostered goodwill and understanding among the eight nationalities represented on the island. Once you arrived on Crozet, did you experience that same welcoming feeling and essentially become a part of the existing island team? Is it a wonderful feeling to be together and not just in lonely tent? What is your favorite wine on the island?**

Being part of such a special team is a once in a lifetime experience for sure. All of the people aboard the Marion Dufresne had heard that a radio amateur would be traveling with them. So I had already made friends with all of them on board the ship and explained what this trip was all about. My favorite "wine" on the island is tea.... Nobody is perfect! We have a great chef and I wish all DXpeditions could eat as well as I do here!

- **Are you in love with your G5RV? You have to take care of her most days? Is it for sale? If you could change one thing about your Crozet DXpedition, what would that be?**

Well, I did not have much choice in terms of the antenna. The TAAF and Wildlife people involved had to give their approval, so as to minimize the impact on nature. The strong winds were also a limiting factor. So I wish I could have used monobanders, but...

### Crozet Trailer

#### \* **About Martti, OH2BH and Ralph, K0IR.**

These two fellows first met in 1992 when on the [VP8SSI DXpedition](#) and became life-long friends. DXpeditions result in such friendships on a lonely Arctic islands whether harsh or enjoyable but yet strong in their spirit and camaraderie. Ever since VP8SSI they have tried to open up the props of the DXpeditioning backstage and push the understanding beyond the ATNOs. This interview was done with that aim in mind.





# 2022 Get Schroeder Contest

1A0	4S	7Q	A3	CE9	E7	FK	GI	HS	KH0	LZ	PJ7	T2	TY	VK9L	VU4	YV0
1S	4U1ITU	7X	A4	CN	EA	FK/C	GJ	HV	KH1	OA	PY	T30	TZ	VK9M	VU7	Z2
3A	4U1UN	8P	A5	CO	EA6	FM	GM	HZ	KH2	OD	PY0F	T31	UA	VK9N	XE	Z3
3B7	4W	8Q	A6	CP	EA8	FO	GU	I	KH3	OE	PY0S	T32	UA0	VK9W	XF4	Z6
3B8	4X	8R	A7	CT	EA9	FO/A	GW	IS0	KH4	OH	PY0T	T33	UA2	VK9X	XT	Z8
3B9	5A	9A	A9	CT3	EI	FO/C	H4	J2	KH5	OH0	PZ	T5	UJ	VP2E	XU	ZA
3C	5B	9G	AP	CU	EK	FO/M	H40	J3	KH6	OJ0	R1F	T7	UN	VP2M	XW	ZB2
3C0	5H	9H	BS7H	CX	EL	FP	HA	J5	KH7K	OK	S0	T8	UR	VP2V	XX9	ZC4
3D2	5N	9J	BU	CY0	EP	FR	HB	J6	KH8	OM	S2	TA	V2	VP5	XZ	ZD7
3D2/C	5R	9K	BV9P	CY9	ER	FS	HB0	J7	KH8S	ON	S5	TF	V3	VP6	YA	ZD8
3D2/R	5T	9L	BY	D2	ES	FR/G	HC	J8	KH9	OX	S7	TG	V4	VP6/D	YB	ZD9
3DA	5U	9M2	C2	D4	ET	FR/J	HC8	JA	KL7	OY	S9	TI	V5	VP8	YI	ZF
3V	5V7	9M6	C3	D6	EU	FR/T	HH	JD1/M	KP1	OZ	SM	TI9	V6	VP8/G	YJ	ZK3
3W	5W	9N	C5	DL	EX	FT5W	HI	JD1/O	KP2	P2	SP	TJ	V7	VP8/H	YK	ZL
3XA	5X	9Q	C6	DU	EY	FT5X	HK	JT	KP4	P4	ST	TK	V8	VP8/O	YL	ZL7
3Y/B	5Z	9U	C9	E3	EZ	FT5Z	HK0/M	JW	KP5	P5	SU	TL	VE	VP8/S	YN	ZL8
3Y/P	6W	9V	CE	E4	F	FW	HK0/S	JX	LA	PA	SV	TN	VK	VP9	YO	ZL9
4J	6Y	9X	CE0X	E5/N	FG	FY	HL	JY	LU	PJ2	SV/A	TR	VK0H	VQ9	YS	ZP
4L	7O	9Y	CE0Y	E5/S	FH	G	HP	K	LX	PJ4	SV5	TT	VK0M	VR	YT	ZS
4O	7P	A2	CE0Z	E6	FJ	GD	HR	KG4	LY	PJ5	SV9	TU	VK9C	VU	YV	ZS8

Chart Legend	
White / Green	Entity Worked This Year by a Member
Black / White	Very Active Entity Not Yet Worked
Black / Blue	Entity with Announced DXpedition
Black / Yellow	Rarely Active Entity Not Yet Worked
Black / Red	Inactive Entity
	Deleted Entity

Here are the final results. Peter, N0FW, took top honors overall at 262, one less than what was reported last month. He was tied for 3rd place in ClubLog. Kent, N6WT held the highest score in Southern California with 259 and was tied for 5th in ClubLog. Will, K6ND was sandwiched in between with 259 and was tied for 4th in ClubLog. Not bad having 3rd, 4th, and 5th in the overall standings! It was as close as it gets and everyone had fun.

IK0OZD topped the charts with 268 worked. In general there were 11 more entities worked in 2022 than 2021 and the club worked 4 more altogether, the Southern California members worked 13 more than last year. Propagation and activity is looking up!

Six of us bested N6QQ. We need to motivate John to get on the air more and stop trying to work all of Japan!

## ClubLog Worked Not SCDXC

1A0	CE0Z	S9	XU
7O	E4	V6	XW
9Q	FT5X	VK9L	XZ
9U	FT5Z	VP8/H	YK
A5	KG4	VU7	ZD8

## SCDXC Worked Not ClubLog

2022 Get Schroeder Leaders								
2022 Total Entities Worked								285
2021 Total Entities Worked								274
2022 Entities Worked by SCDXC								265
2021 SCDXC Entities Worked								261
2022 Entities Worked by SCDXC Members in SoCal								262
2021 Entities Worked by SCDXC Members in SoCal								249
2022 ClubLog Leaders Entities Worked								284
2021 ClubLog Leaders Entities Worked								274
2022 SCDXC Leader (N0FW)								261
2021 ClubLog Leader (N0FW)								256
Rank	Call	Entities	Last Mo.	Last Yr	Leader	-Tot	-QQ	Uniques
1	N0FW	261	-1	4	1	4	-33	1
2	K6ND	260	0	16	0	5	-32	0
3	N6WT	259	0	75	-1	6	-31	0
4	W6TK	252	1	22	-8	13	-24	1
5	N6WS	252	0	29	-8	13	-24	1
6	N6RV	243	0	20	-17	22	-15	0
7	N6QQ	228	0	28	-32	37	0	0
8	WA5VGI	223	1	33	-37	42	5	0
9	W6OU	223	0	3	-37	42	5	0
10	W6DR	220	2	60	-40	45	8	0
11	N6PM	213	0	34	-47	52	15	0
12	W8GJK	212	1	82	-48	53	16	0
13	NS6C	208	1	64	-52	57	20	0
14	SM5GMZ	205	6	20	-55	60	23	0
15	W8DX	190	0	60	-70	75	38	0
16	K6RO	185	0	-41	-75	80	43	0
17	N6DHZ	184	0	26	-76	81	44	0
18	K6AFW	161	1	131	-99	104	67	0
19	WB6DJI	157	0	15	-103	108	71	0
20	W6ZL	157	1	42	-103	108	71	0
21	AC6MW	156	0	-7	-104	109	72	0
22	W6YLZ	154	0	-76	-106	111	74	0
23	N6GP	150	4	51	-110	115	78	0
24	ZL3TE	136	3	-3	-124	129	92	0
25	K6JW	133	0	30	-127	132	95	0
26	K6FG	131	0	40	-129	134	97	0
27	AI6Z	124	0	-24	-136	141	104	0
28	NK6A	111	0	-1	-149	154	117	0
29	KK6M	111	0	-40	-149	154	117	0
30	K6SY	108	0	19	-152	157	120	0
31	KR6C	103	0	43	-157	162	125	0
32	NE6V	102	0	102	-158	163	126	0

SCDXC Get Schroeder Standings 2022																
Rank	Call	160	80	60	40	30	20	17	15	12	10	6	Total	Slots	YRS	
1	N0FW	93	##	##	136	149	213	191	211	198	209	69	261	1700	27	
2	K6ND	42	64	65	111	134	161	145	143	107	107	53	260	1132	31	
3	N6WT	26	46	17	132	118	168	133	161	120	122	11	259	1054	9	
4	W6TK	5	51	23	165	158	200	208	200	165	147	0	252	1322	66	
5	N6WS	3	27	41	119	57	144	146	175	179	155	46	252	1092	59	
6	N6RV	0	42	14	159	130	181	135	181	154	159	41	243	1196	55	
7	N6QQ	0	17	0	106	146	187	168	177	116	119	35	228	1071	66	
8	WA5VGI	13	35	62	86	83	134	134	143	125	81	13	223	909	39	
9	W6OU	0	3	0	64	40	79	38	62	22	20	3	223	331	60	
10	W6DR	36	59	75	119	145	133	158	132	137	73	29	220	1096	42	
11	N6PM	1	36	34	73	95	94	90	115	114	129	0	213	781	29	
12	W8GJK	0	21	12	81	85	162	127	141	107	120	6	212	862	16	
13	NS6C	3	10	1	84	52	78	74	69	35	43	18	208	467	66	
14	W8DX	0	0	0	33	18	131	77	52	22	41	1	190	375	65	
15	K6RO	4	32	48	82	54	135	136	143	108	84	3	185	829	35	
16	N6DHZ	0	18	0	78	24	106	61	123	59	92	0	184	561	35	
17	K6RI	0	0	0	60	36	33	57	48	43	12	1	184	290	9	
18	K6AFW	0	0	0	89	81	10	70	146	71	19	0	161	486	31	
19	WB6DJI	0	0	0	67	3	139	74	56	10	33	8	157	390	29	
20	W6ZL	0	1	0	27	0	97	0	108	0	99	0	157	332	31	
21	AC6MW	0	0	0	43	21	38	34	105	65	41	0	156	347	27	
22	W6YLZ	0	14	8	28	56	56	53	46	44	25	35	154	365	35	
23	N6GP	0	20	0	40	11	71	12	84	103	73	10	150	424	34	
24	K6JW	0	45	0	15	49	18	56	30	31	24	4	133	272	64	
25	K6FG	22	22	0	39	68	65	60	35	85	47	28	131	471	66	
26	AI6Z	0	3	0	29	7	89	8	69	6	21	0	124	232	29	
27	SK5A	0	11	0	9	6	102	2	5	6	2	0	115	143	46	
28	NK6A	0	0	0	15	3	68	7	94	1	42	0	111	230	78	
29	K6GM	0	2	0	16	2	85	26	86	2	9	0	111	228	44	
30	K6SY	0	13	0	38	41	35	53	57	35	20	2	108	294	53	
31	KR6C	1	2	0	13	10	49	11	34	7	48	0	103	175	44	
32	NE6V	14	8	0	24	24	33	13	17	6	35	4	102	178	27	
33	W6FL	0	1	0	13	10	8	16	39	29	13	35	93	164	63	
34	NZ6L	0	0	0	30	26	25	22	36	9	19	0	88	167	19	
35	W6BY	0	1	0	3	0	25	57	17	17	25	1	88	146	22	
36	K7MY	0	3	0	16	0	34	3	63	1	51	0	84	171	25	
37	K6PGH	0	0	0	1	35	44	47	28	41	0	0	81	196	9	
38	WC2S	0	0	0	4	3	12	36	40	27	27	1	80	150	5	
39	W6SR	0	7	0	22	2	31	5	43	2	25	2	66	139	56	
40	K9TAD	0	0	0	14	0	30	0	18	0	5	2	41	69	16	
41	W6KC	0	0	0	26	1	13	3	18	1	1	1	38	64	62	
42	K6FOD	0	0	0	2	2	7	5	25	3	14	0	37	58	4	
43	W6SW	0	0	0	0	0	13	0	1	1	1	0	14	16	44	
44	N6MG	0	1	0	4	1	9	1	5	1	3	0	13	25	44	
45	K6YIC	0	0	0	1	5	0	1	3	1	3	0	10	14	3	

# 2023 Get Schroeder Contest

1A0	4S	7Q	A3	CE9	E7	FK	GI	HS	KH0	LZ	PJ7	T2	TY	VK9L	VU4	YV0
1S	4U1TU	7X	A4	CN	EA	FK/C	GJ	HV	KH1	OA	PY	T30	TZ	VK9M	VU7	Z2
3A	4U1UN	8P	A5	CO	EA6	FM	GM	HZ	KH2	OD	PY0F	T31	UA	VK9N	XE	Z3
3B7	4W	8Q	A6	CP	EA8	FO	GU	I	KH3	OE	PY0S	T32	UA0	VK9W	XF4	Z6
3B8	4X	8R	A7	CT	EA9	FO/A	GW	IS0	KH4	OH	PY0T	T33	UA2	VK9X	XT	Z8
3B9	5A	9A	A9	CT3	EI	FO/C	H4	J2	KH5	OH0	PZ	T5	UJ	VP2E	XU	ZA
3C	5B	9G	AP	CU	EK	FO/M	H40	J3	KH6	OJ0	R1F	T7	UN	VP2M	XW	ZB2
3C0	5H	9H	BS7H	CX	EL	FP	HA	J5	KH7K	OK	S0	T8	UR	VP2V	XX9	ZC4
3D2	5N	9J	BU	CY0	EP	FR	HB	J6	KH8	OM	S2	TA	V2	VP5	XZ	ZD7
3D2/C	5R	9K	BV9P	CY9	ER	FS	HB0	J7	KH8S	ON	S5	TF	V3	VP6	YA	ZD8
3D2/R	5T	9L	BY	D2	ES	FR/G	HC	J8	KH9	OX	S7	TG	V4	VP6/D	YB	ZD9
3DA	5U	9M2	C2	D4	ET	FR/J	HC8	JA	KL7	OY	S9	TI	V5	VP8	YI	ZF
3V	5V7	9M6	C3	D6	EU	FR/T	HH	JD1/M	KP1	OZ	SM	TI9	V6	VP8/G	YJ	ZK3
3W	5W	9N	C5	DL	EX	FT5W	HI	JD1/O	KP2	P2	SP	TJ	V7	VP8/H	YK	ZL
3XA	5X	9Q	C6	DU	EY	FT5X	HK	JT	KP4	P4	ST	TK	V8	VP8/O	YL	ZL7
3Y/B	5Z	9U	C9	E3	EZ	FT5Z	HK0/M	JW	KP5	P5	SU	TL	VE	VP8/S	YN	ZL8
3Y/P	6W	9V	CE	E4	F	FW	HK0/S	JX	LA	PA	SV	TN	VK	VP9	YO	ZL9
4J	6Y	9X	CE0X	E5/N	FG	FY	HL	JY	LU	PJ2	SV/A	TR	VK0H	VQ9	YS	ZP
4L	7O	9Y	CE0Y	E5/S	FH	G	HP	K	LX	PJ4	SV5	TT	VK0M	VR	YT	ZS
4O	7P	A2	CE0Z	E6	FJ	GD	HR	KG4	LY	PJ5	SV9	TU	VK9C	VU	YV	ZS8

Chart Legend	
White / Green	Entity Worked This Year by a Member
Black / White	Very Active Entity Not Yet Worked
Black / Blue	Entity with Announced DXpedition
Black / Yellow	Rarely Active Entity Not Yet Worked
Black / Red	Inactive Entity
	Deleted Entity

Here we go again! Can you believe the number of entities worked this month!

Bill, N6RV, slipped by Kent, N6WT with a big margin while Kent was doing tower and antenna maintenance. It won't be long before Kent will crush the standings and leave Bill and the rest eating his dust!

Kent worked his 100th station, JT1BV on 15 meter FT8, on 1/3/2023 at 0123 UTC, an hour and 23 minutes over 2 days (49 hours 23 minutes). Both Bills (N6WS & N6RV,) Dick, W6TK, and Paul, W8GJK, were in the hunt as well! Curse you Red Baron! Many have already passed the next gat at 150 entities! Next year it would be neat to give awards for the first to pass each goal (100, 150, 200, 225, 250)! We are considering a one way ticket to North Korea as one of the prizes!

As it stands 7 members have worked DXCC this year and three are north of the second gate, 150. Of course the ClubLog leaders are almost at 200 with 226 total worked!

Club log leaders have us bested by at least 40 entities! We have to get it in gear!

Keep up the good work. If you haven't noticed the SFI soared to 234! It was a one shot deal. The SFI hung out above 200 for almost 2 weeks! We are in the rare ionosphere now!

2023 Get Schroeder Leaders							
2023 Total Entities Worked							227
2022 Total Entities Worked							286
2023 Entities Worked by SCDXC							191
2022 SCDXC Entities Worked							262
2023 Entities Worked by SCDXC Members in SoCal							189
2022 Entities Worked by SCDXC Members in SoCal							262
2023 ClubLog Leaders Entities Worked							226
2022 ClubLog Leaders Entities Worked							285
2023 SCDXC Leader (N6RV)							174
2022 ClubLog Leader (N0FW)							256
Rank	Call	Entities	Last Mo.	Last Yr	Leader	-Tot	-Q
1	N6RV	174	174	-69	17	-86	6
2	N6WS	165	-87	-9	26	-77	2
3	N6WT	149	-110	-25	42	-61	0
4	W8GJK	131	-80	-43	60	-43	0
5	W6TK	129	-122	-45	62	-41	0
6	WA5VGI	117	-105	-57	74	-29	1
7	W6OU	107	-116	-67	84	-19	0
8	K6RO	97	-88	-77	94	-9	1
9	N6QQ	88	-140	-86	103	0	1
10	K6AFW	78	-82	-96	113	10	0
11	N6PM	72	-141	-102	119	16	1
12	N0FW	65	-197	-109	126	23	0
13	W6DR	52	-166	-122	139	36	0

## ClubLog Worked Not SCDXC

3A	8R	HB0	PY0F	VP9
3V	9Q	HK0/S	S2	XU
3XA	EY	HV	ST	YA
4W	FH	J5	TU	YI
5A	FJ	OH0	VK9W	YN
5H	FO/M	P2	VP2M	ZA
5R	FS	PJ7	VP6	ZC4
5V7				

## SCDXC Worked Not ClubLog

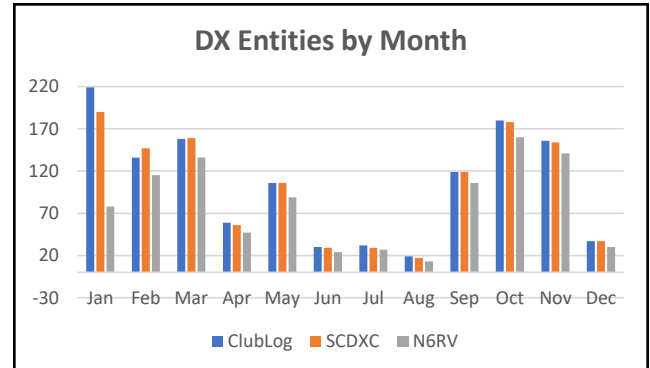
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SCDXC Get Schroeder Standings 2023															
Rank	Call	160	80	60	40	30	20	17	15	12	10	6	Total	Slots	YRS
1	N6RV	0	1	2	36	78	39	9	17	23	41	1	174	247	55
2	N6WS	0	5	7	36	25	82	54	50	65	63	2	163	389	59
3	N6WT	0	3	0	22	30	70	36	24	6	18	0	149	209	9
4	W8GJK	0	11	4	37	36	68	68	85	78	67	1	131	455	16
5	W6TK	0	11	1	49	42	77	53	46	45	62	0	129	386	66
6	WA5VGI	6	0	0	9	18	34	53	44	19	17	0	117	200	39
7	W6OU	0	1	0	5	19	32	25	36	7	10	0	107	135	60
8	K6RO	0	3	24	15	19	21	40	44	31	45	0	95	242	35
9	N6QQ	0	0	0	4	49	41	34	31	30	35	0	88	224	66
10	K6AFW	0	0	0	48	12	12	15	51	29	30	1	74	198	31
11	N6PM	0	8	4	13	20	4	1	6	42	19	0	72	117	29
12	N0FW	1	6	3	6	23	15	7	9	1	11	0	65	82	27
13	W6DR	2	2	8	11	14	6	21	7	9	4	0	52	84	53
14	N6DZ	0	2	0	11	2	19	2	17	4	20	0	40	77	35
15	K6ND	3	1	2	15	7	15	1	13	4	9	0	32	70	32
16	W6YLZ	0	3	4	2	14	0	4	2	4	4	0	32	37	35
17	NK6A	0	0	0	0	0	15	1	20	0	11	0	30	47	78
18	N6GP	0	3	0	3	2	6	1	7	13	6	0	26	41	35
19	K7MY	0	1	0	3	0	6	0	17	0	11	0	23	38	25
20	W6SR	0	0	0	0	0	0	0	17	2	3	0	19	22	56
21	WB6DJI	0	0	0	17	0	4	0	0	0	0	0	19	21	30
22	W8DX	0	0	0	2	1	8	1	6	1	4	0	15	23	66
23	W6ZL	0	0	0	4	0	6	0	6	0	6	0	12	22	31
24	N6BV	1	1	3	3	2	2	1	1	2	1	0	8	17	27
25	NS6C	0	0	0	1	1	5	1	2	1	0	0	6	11	66
26	WC2S	0	0	0	0	1	2	1	0	1	2	0	6	7	6
27	NZ6L	0	0	0	1	4	0	0	0	0	0	0	5	5	19
28	K6JW	0	0	0	0	0	3	0	1	0	0	0	4	4	64
29	K9TAD	0	0	0	1	0	0	0	1	0	3	0	3	5	16
30	W6KK	0	0	0	0	0	0	0	0	1	1	0	2	2	28
31	W6SW	0	0	0	0	0	1	0	0	0	0	0	1	1	44
32	W6FL	0	0	0	0	0	0	0	0	0	0	1	1	1	63
33	KK6M	0	0	0	0	0	0	0	0	0	0	1	1	1	44

## 2022 DX in Review

To say that 2022 was an exceptional year does not do it justice. Looking back there were 286 active entities reported. Furthermore, 97 were fairly rare and twenty of those were very rare ones.

Equatorial Guinea	3C	3C3CA
Eswatani	3DA	3DA0AQ
Guinea	3X	3X1A
Azerbaijan	4J	4J3DJ
Niger	5U	5UA99WS
Nepal	9N	9N7WE
Pakistan	AP	AP2AM
Moldova	ER	ER1KAA
Kyrgyzstan	EX	EX0QR
Tajikistan	EY	EY8MM
<b>Crozet Island</b>	<b>FT8W</b>	<b>FT8WW</b>
Bangladesh	S2	S21DX
Sudan	ST	ST2NH
Cote d'Ivoire	TU	TU5PCT
Benin	TY	TY0RU
Uzbekistan	UJ	UK8FF
Andaman & Nicobar Isl	VU4	VU4W
Burkina Faso	XT	XT2MAX
Zimbabwe	Z2	Z27CXY
Republic of Kosovo	Z6	Z61DX
U K Bases on Cyprus	ZC4	ZC4GR



	ClubLog	SCDXC	N6RV
<b>Total</b>	<b>284</b>	<b>265</b>	<b>243</b>
Jan	219	190	78
Feb	136	147	115
Mar	158	159	136
Apr	59	56	47
May	106	106	89
Jun	30	29	24
Jul	32	29	27
Aug	19	17	13
Sep	119	119	106
Oct	180	178	160
Nov	156	154	141
Dec	37	37	30

Some of the notable operations were:

Many members were waiting for FT8WW to make it to the top of the honor roll. They were not disappointed as Thierry is finished off his activity this month giving the Get Schroeder contesters a rare one in both 2022 and 2023! Hopefully he will obtain to permission to operate again soon. He will be there until March but only had a 3 week window to operate.

If you were not active then you missed one of the best years on the books! The charts tell the story. SCDXC members did fare pretty well missing only 20 of the active entities. That is saying a lot since only a handful of us are still on the air! This year will be even better!

Looking at the entities activity by month is pretty telling. It seems that during the major contests (January ARRL DX CW, February ARRL DX SSB, September WAE, October CQWW SSB, and November CQWW CW) the number of active entities are at a maximum. Why? Well, that is the time most DXers get on the air. The spring and summer are reserved for other activity like fixing antennas and seeing the world! Go back 50 years and the distribution would be flat because most of us were kids or busy parents with little resources except getting on the air! Nowadays we have to discipline ourselves to get on the air and not be jaded by the fact that we worked them all, like many boast at our meetings. It almost seems like that is the only time they are active and it is an eyeball QSO to say the least! In any event, records were broken in this years contests. Expect more records to fall as we approach sunspot maximum!



2022 DX in Review

Below is the table of rare, semi-rare, and very rare entities that were on in 2022. Yes, you could almost work DXCC if you caught them all. The second table is a monthly listing. On the next page is a listing of all DXCC entities worked by N6RV and what months they were active plus a list of entities that were not active. Of course, the second table is not complete. There were a lot of common stations on as well in the months showing few active. We are working on a way to collect that data.

Operations From Rare Entities																	
Entity	PFX	Call	Entity	PFX	Call	Entity	PFX	Call	Entity	PFX	Call	Entity	PFX	Call	Entity	PFX	Call
Monaco	3A	3A/F6EXV	Algeria	7X	7X3WPL	Armenia	EK	EK1KE	Mongolia	JT	JT5DX	Kaliningrad	UA2	RA2F			
Mauritius Island	3B8	3B8M	Maldives	8Q	8Q7DX	Liberia	EL	EL2DT	Svalbard	JW	JW0X	Uzbekistan	UJ	UK8FF			
Rodriguez Island	3B9	3B9FR	Ghana	9G	9G5AF	Iran	EP	EP2ABS	Jordan	JY	JY5IB	Brunei	V8	V85T			
Equatorial Guinea	3C	3C3CA	Zambia	9J	9J2BS	Moldova	ER	ER1KAA	Market Reef	OJ0	OJ0DX	Macquarie Island	VK0-M	VK0MQ			
Rotuma	3D2-R	3D2RRR	Kuwait	9K	9K9A	Belarus	EW	EW5A	Faroe Islands	OY	OY1CT	Cocos (Keeling) Islands	VK9-C	VK9CM			
Eswatani	3DA	3DA0AQ	Nepal	9N	9N7WE	Kyrgyzstan	EX	EX0QR	Papua New Guinea	P2	P29RO	Norfolk Island	VK9-N	VK9DX			
Tunisia	3V	3V8SS	Tonga	A3	A35GC	Tajikistan	EY	EY8MM	Western Sahara	S0	S01WS	Christmas Island	VK9-X	VK9XX			
Guinea	3X	3X1A	Oman	A4	A42K	Saint Barthelemy	FJ	FJ/SP9FIH	Bangladesh	S2	S21DX	Andaman & Nicobar Isl	VU4	VU4W			
Azerbaijan	4J	4J3DJ	UAE	A6	A61ZX	Austral Islands	FO-A	TX5N	Seychelles Islands	S7	S79/DL5RDO	Burkina Faso	XT	XT2MAX			
Georgia	4L	4L8A	Qatar	A7	A71XX	Marquesas Isl	FO-M	TX7G	Sudan	ST	ST2NH	Vanuatu	YJ	YJ0CA			
Montenegro	4O	4O7CC	Bahrain	A9	A92AA	Crozet Island	FT8W	FT8WW	Egypt	SU	SU1SK	Zimbabwe	Z2	Z27CX			
Sri Lanka	4S	4S7AB	Pakistan	AP	AP2AM	Wallis & Futuna Isl	FW	FW1JG	Dodecanese	SV5	SV5AZP	North Macedonia	Z3	Z31RU			
UN HQ	4U1U	4U1UN	Andorra	C3	C37N	Liechtenstein	HB0	HB0WR	Banaba Island	T33	T33T	Republic of Kosovo	Z6	Z61DX			
Tanzania	5H	5H3TSA	The Gambia	C5	C56DF	Galapagos Islands	HC8	HC8MD	San Marino	T7	T77C	Albania	ZA	ZA/IK2RLM			
Madagascar	5R	5R8WP	Mozambique	C9	C91CCY	San Andres Island	HK0-S	5K0T	Palau	T8	T88PB	Gibraltar	ZB2	ZB2FK			
Niger	5U	5UA99WS	Easter Island	CE0Y	CE0YHO	Saudi Arabia	HZ	7Z1IS	Cent African Rep	TL	TL8ZZ	U K Bases on Cyprus	ZC4	ZC4GR			
Togo	5V	5V7RU	Antarctica	CE9	DP0GVN	Sardinia	IS0	IS0KNG	Gabon	TR	TR8CA	Chatham Island	ZL7	ZL7/K5WE			
Samoa	5W	5W1SA	Angola	D2	D2UY	Djibouti	J2	J28MD	Cote d'Ivoire	TU	TU5PCT						
Uganda	5X	5X3Z	Comoros	D6	D60AE	Minami Torishima	JD1-M	JG1NQJ/JDQ	Benin	TY	TY0RU						
Malawi	7Q	7Q5RU	N Cook Isl	E5-N	E51WL	Ogasawara	JD1-O	JD1BHA	Mali	TZ	TZ4AM						

Legend
Very Rare
Pretty Rare
Rare Enough

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1 Georgia 4L	1 Sri Lanka 4S	1 Rodriguez Island 3B9	1 Rodriguez Island 3B9	1 Rodriguez Island 3B9	1 Rotuma 3B9	1 Monaco 3A	1 Madagascar 5R	1 Mauritius Island 3B8	1 Monaco 3A	1 Mauritius Island 3B8	1 Rotuma 3B9
2 Tanzania SH	2 United Nations HQ 4U1U	2 Azerbaijan 4J	2 Uganda 4L	2 Rotuma 3B9	2 Liberia EL	2 Madagascar 5R	2 Kuwait 9K	2 Rodriguez Island 3B9	2 Rodriguez Island 3B9	2 Rodriguez Island 3B9	2 Madagascar 5R
3 Mauritania ST	3 Ghana 9G	3 Georgia 4L	3 Maldives 8Q	3 Tunisia 3V	3 Macquarie Island VK0-M	3 Malawi 7Q	3 Qatar A7	3 Kingdom of Eswatini 3DA	3 Equatorial Guinea 3C	3 Equatorial Guinea 3C	3 Qatar A7
4 Pitcairn Island VP6	4 Kuwait 9K	4 United Nations HQ 4U1U	4 Ghana 9G	4 Georgia 4L		4 Tonga A3	4 Easter Island CE0Y	4 Sri Lanka 4S	4 Georgia 4L	4 Rotuma 3B9	4 Crozet Island FT8W
	5 Oman A4	5 Niger 5U	5 Nepal 9N	5 Montenegro 4O		5 Saudi Arabia HZ	5 Angola D2	5 Samoa 5W	5 Sri Lanka 4S	5 Guinea 3X	5 Western Sahara 5H
	6 Andorra C3	6 Uganda 5K	6 United Arab Emirates A6	6 United Nations HQ 4U1U		6 Market Reef OJ0	6 Isle Of Man GD	6 Malawi 7Q	6 Tanzania 5H	6 United Nations HQ 4U1U	6 Bangladesh 5Z
	7 Angola D2	7 Algeria 7X	7 Qatar A7	7 Israel 4K			7 Vanuatu YJ	7 Zambia 5I	7 Madagascar 5R	7 Madagascar 5R	7 Uzbekistan UJ
	8 Moldova ER	8 Nepal 9N	8 Bahrain A9	8 Togo 5V			8 Albania ZA	8 Kuwait 9K	8 Togo 5V	8 Togo 5V	8 Burkina Faso XT
	9 Dodecanese SV5	9 Oman A4	9 Mozambique C9	9 Zambia 5I				9 Oman A4	9 Samoa 5W	9 Samoa 5W	
	10 San Marino T7	10 United Arab Emirates A6	10 North Cook Islands ES-N	10 Nepal 9N				10 Andorra C3	10 Malawi 7Q	10 Malawi 7Q	
	11 Cote d'Ivoire TU	11 Qatar A7	11 Liberia EL	11 United Arab Emirates A6				11 Mozambique C9	11 Algeria 7X	11 Ghana 9G	
	12 Kaliningrad UA2	12 The Gambia C5	12 Iran EP	12 Bahrain A9				12 Antarctica CE9	12 Ghana 9G	12 Tonga A3	
	13 Zimbabwe Z2	13 Comoros D6	13 Kyrgyzstan EX	13 Pakistan AP				13 Angola D2	13 Kuwait 9K	13 The Gambia C5	
	14 North Macedonia Z3	14 Moldova ER	14 Austral Islands FO-A	14 Mozambique C9				14 Liberia EL	14 Oman A4	14 Antarctica CE9	
	15 Gibraltar ZB2	15 Belarus EW	15 Galapagos Islands HC8	15 San Andres Island HK0-S				15 Moldova ER	15 Qatar A7	15 Armenia EK	
		16 Tajikistan EY	16 Saudi Arabia HZ	16 Minami Torishima JD1-M				16 Belarus EW	16 Andorra C3	16 Liberia EL	
		17 Wallis & Futuna Islands FW	17 Djibouti J2	17 Egypt 5U				17 Liechtenstein HB0	17 Mozambique C9	17 Iran EP	
		18 Svalbard JW	18 Ogasawara JD1-O	18 Brunei V8				18 San Andres Island HK0-S	18 Angola D2	18 Moldova ER	
		19 Faroe Islands OY	19 Svalbard JW	19 Andaman & Nicobar Islands VU4				19 Saudi Arabia HZ	19 Comoros D6	19 Belarus EW	
		20 Western Sahara 5H	20 Jordan JY	20 Zimbabwe Z2				20 Sardinia IS0	20 Moldova ER	20 Saint Barthelemy FJ	
		21 Dodecanese SV5	21 Faroe Islands OY	21 Republic of Kosovo Z6				21 Djibouti J2	21 Belarus EW	21 Wallis & Futuna Islands FW	
		22 San Marino T7	22 Papua New Guinea P2					22 Svalbard JW	22 Kyrgyzstan EX	22 Djibouti J2	
		23 Palau T8	23 Western Sahara 5H					23 San Marino T7	23 Saint Barthelemy FJ	23 Mongolia JT	
		24 Benin TY	24 Seychelles Islands S7					24 Kaliningrad UA2	24 Marquesas Islands FO-M	24 Svalbard JW	
		25 Uzbekistan UJ	25 Sudan ST					25 Wallis & Futuna Islands FW	25 Banaba Island T33	25 Banaba Island T33	
		26 Norfolk Island VK9-N	26 Egypt 5U					26 Christmas Island VK9-X	26 Liechtenstein HB0	26 San Marino T7	
			27 Gabon TR					27 Vanuatu YJ	27 Saudi Arabia HZ	27 Palau T8	
			28 Mali TZ					28 North Macedonia Z3	28 Ogasawara JD1-O	28 Central African Republic TL	
			29 Kaliningrad UA2					29 Gibraltar ZB2	29 Mongolia JT	29 Gabon TR	
			30 Norfolk Island VK9-N					30 Chatham Island ZL7	30 Svalbard JW	30 Benin TY	
			31 Zimbabwe Z2						31 Jordan JY	31 Kaliningrad UA2	
			32 Republic of Kosovo Z6						32 Papua New Guinea P2	32 Uzbekistan UJ	
			33 Albania ZA						33 Seychelles Islands S7	33 Brunei V8	
			34 U K Bases on Cyprus ZC4						34 Egypt 5U	34 Cocos (Keeling) Islands VK9-C	
									35 Dodecanese SV5	35 Norfolk Island VK9-N	
									36 San Marino T7		
									37 Gabon TR		
									38 Benin TY		
									39 Uzbekistan UJ		
									40 Kazakhstan UN		
									41 Brunei V8		
									42 Vanuatu YJ		
									43 North Macedonia Z3		
									44 Republic of Kosovo Z6		

# 2022 DX in Review

		Tot	Mn	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Nov	Dec
		243		88	130	151	53	101	27	29	15	118	178	154	35	154	35
Monaco	3A	1	2							1				1		Dec	
Mauritius Island	388	1	3	1									1	1		35	
Rodriguez Island	389	1	6			1	1	1					1	1	1		
Equatorial Guinea	3C	1	2											1	1		
Fiji Islands	3D2-F	1	5	1	1			1						1	1		
Rotuma	3D2-R	1	4					1	1					1	1	1	1
Kingdom of Eswatini	3DA	1	2	1								1					
Tunisia	3V	1	1				1								1		
Viet Nam	3W	1	7	1	1	1		1				1	1	1	1	1	1
Guinea	3X	1	2		1												
Azerbaijan	4I	1	1		1											1	
Georgia	4L	1	4	1	1		1						1				
Montenegro	4O	1	1				1										
Sri Lanka	4S	1	4	1	1							1	1				
United Nations HQ	4U1U	1	4	1	1	1		1						1			
Israel	4X	1	5			1	1					1	1	1			
Cyprus	5H	1	5		1	1						1	1	1			
Tanzania	5B	1	2	1								1					
Madagascar	5R	1	5							1	1		1	1	1	1	1
Mauritania	5T	1	1	1													
Niger	5U	1	1		1											1	
Togo	5V	1	3				1						1	1			
Samoa	5W	1	4	1								1	1	1			
Uganda	5X	1	2			1	1										
Kenya	5Z	1	5	1	1	1	1		1				1				
Senegal	6W	1	2	1													
Jamaica	6Y	1	4	1	1								1	1			
Malawi	7Q	1	5		1						1	1	1	1			
Algeria	7X	1	2		1								1				
Barbados	8P	1	5	1	1	1							1	1			
Maldives	8Q	1	1				1										
Guyana	8R	1	1		1												
Croatia	9A	1	7	1	1	1		1				1	1	1			
Ghana	9G	1	4	1		1							1	1			
Malta	9H	1	4	1		1							1	1			
Zambia	9J	1	2					1									
Kuwait	9K	1	5	1	1					1	1	1					
West Malaysia	9M2	1	5	1	1							1	1	1			
East Malaysia	9M6	1	6	1		1						1	1	1	1	1	1
Nepal	9N	1	3		1	1	1										
Singapore	9V	1	3	1	1								1				Trinidad & Tobago
Trinidad & Tobago	9Y	1	5	1	1	1							1	1			
Tonga	A3	1	2							1			1	1			
Oman	A4	1	4		1	1							1	1			
United Arab Emirates	A6	1	3		1	1	1										
Qatar	A7	1	5		1	1						1	1	1		1	1
Bahrain	A9	1	2			1	1										
Pakistan	AP	1	1			1										1	
Taiwan	BV	1	7	1	1			1	1		1	1	1	1			
China	BY	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Andorra	C3	1	3	1								1	1				
The Gambia	C5	1	2		1											1	1
Bahamas	C6	1	3	1	1									1			
Mozambique	C9	1	4			1	1					1	1				
Chile	CL	1	8	1	1	1	1	1					1	1	1		
Easter Island	CE0V	1	1									1					
Antarctica	CE9	1	1										1	1			
Morocco	CN	1	4		1	1							1	1			
Cuba	CO	1	6	1	1	1							1	1	1		
Bolivia	CP	1	3	1									1	1			
Portugal	CT	1	8	1	1	1	1					1	1	1	1		
Madeira Islands	CT3	1	7	1	1	1	1	1					1	1	1		
Azores	CX	1	4	1	1	1							1				
Uruguay	CU	1	8	1	1	1	1	1					1	1	1		
Angola	D2	1	5		1	1						1	1	1			
Cape Verde	D4	1	5		1	1	1						1	1			
Comoros	D6	1	2		1								1				
Federal Republic of Germany	DU	1	9	1	1	1	1	1	1	1			1	1	1		
Philippines	DU	1	6	1	1	1	1						1	1	1	1	1
North Cook Islands	ES-N	1	1			1											
South Cook Islands	ES-S	1	4		1	1								1	1	1	1
Bosnia-Herzegovina	E7	1	7	1	1	1	1						1	1	1		
Spain	EA	1	8	1	1	1	1	1					1	1	1		
Balearic Islands	EA6	1	6	1	1		1		1				1	1			
Canary Islands	EA8	1	6	1	1	1							1	1	1		
Ceuta & Melilla	EA9	1	4	1	1								1	1			
Ireland	EI	1	7	1	1	1	1	1					1	1	1		
Armenia	EK	1	2		1										1		
Liberia	EL	1	4			1	1					1	1				
Iran	EP	1	3			1							1	1			
Moldova	ER	1	5		1	1							1	1	1		
Estonia	ES	1	6		1	1			1	1			1	1			
Belarus	EW	1	5		1	1						1	1	1			
Kyrgyzstan	EX	1	2			1							1				
Tajikistan	EY	1	1			1											
France	F	1	8	1	1	1	1	1	1	1	1	1	1	1	1		
Guadeloupe	FG	1	5	1									1	1			
Mayotte Island	FH	1	1		1												
Saint Barthelemy	FJ	1	2										1	1			
New Caledonia	FS	1	6	1	1							1	1	1	1	1	1
Martinique	FM	1	5	1	1	1							1	1			
Austral Islands	FO-A	1	2			1	1								1		
French Polynesia	FO-F	1	4									1	1	1			
Marquesas Islands	FO-M	1	1											1			
Saint Pierre & Miquelon	FP	1	1						1								
Reunion Island	FR	1	4			1						1	1	1			
Saint Martin	FS	1	3		1								1	1			
Crozet Island	FTBW	1	1											1	1	1	1
Wallis & Futuna Islands	FW	1	3			1							1	1			
French Guiana	FY	1	7	1	1	1						1	1	1	1	1	1
England	G	1	7	1	1			1	1				1	1	1		
Isle Of Man	GD	1	6	1	1							1	1	1		1	
Northern Ireland	GI	1	6	1	1							1	1	1			
Jersey	GJ	1	2		1								1	1			
Scotland	GM	1	8	1	1	1	1	1	1	1	1	1	1	1			
Guernsey	GU	1	3			1											
Wales	GW	1	4	1	1								1	1			
Hungary	HA	1	7	1	1	1	1		1				1	1	1		
Switzerland	HB	1	7	1	1	1	1						1	1	1		
Liechtenstein	HB0	1	4		1								1	1			
Ecuador	HC	1	8	1	1	1	1	1					1	1	1	1	1
Galapagos Islands	HCB	1	1														
Haiti	HH	1	6	1		1	1						1	1	1	1	1
Dominican Republic	HI	1	8	1	1	1	1		1	1			1	1	1		
Colombia	HK	1	5	1	1	1							1	1			
San Andres Island	HKO-S	1	2					1					1				
Republic of Korea	HL	1	7	1	1	1	1		1				1	1	1		
Panama	HP	1	5		1	1							1	1			
Honduras	HR	1	5	1	1	1							1	1			
Thailand	HS	1	6	1	1	1	1	1					1	1			
Vatican	HV	1	1											1			
Saudi Arabia	HZ	1	4				1				1	1	1				
Italy	I	1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sardinia	ISO	1	4		1								1	1	1		
Djibouti	J2	1	3		1			1									

## Deleted ARRL DXCC Entities

This deleted entity was visited by many Americans in the 60's and 70's, French Indo China

Prefix	Entity	Cont	Zone	ITU	CQ	UTC +/-	Location Lat	Long	Prefix
DL	Federal Republic of Germany	EU	28	14	1	52N	7E		
DM	German Democratic Republic	EU	28	14	1	53N	13E		Y2-9 DM
EA9	Ifni	AF	37	33	0	29N	10W		
FF	French W Africa	AF	46	35	0	15N	18W		
FH	Comoros	AF	53	39	3	12S	43E		FB8
FI8	Fr Indo China	AS	49	26	7	11N	107E		
FN8	French India	AS	41	22	5.5	12N	80E		
FQ8	Fr Equatorial Africa	AF	47, 52	36	1	5N	18E		

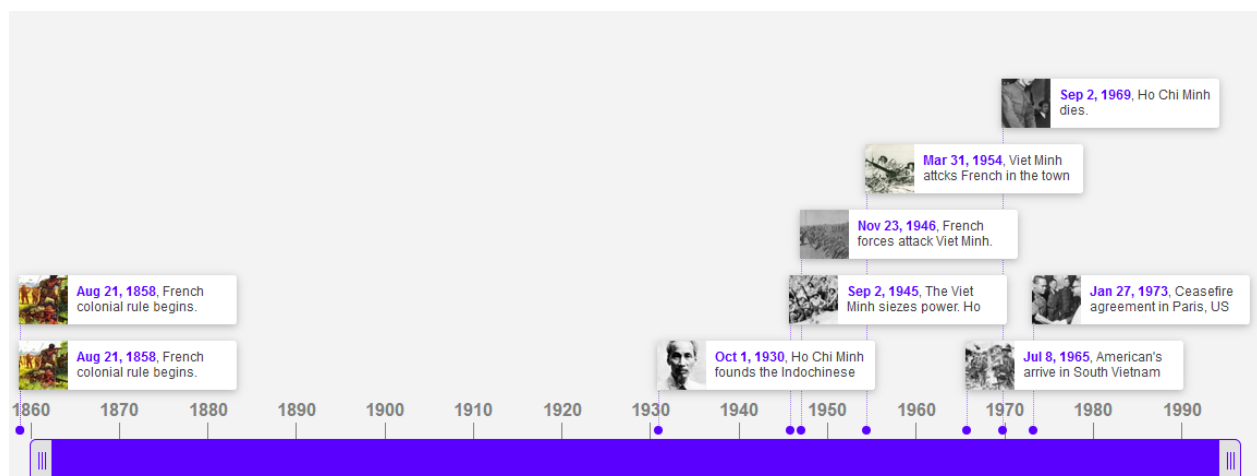
### French Indo China

Students of history know that much of Southeast Asia is the ancient kingdom of Siam. In the late 19th and early 20th century the eastern parts were ceded to France who combined all of its colonies in Southeast Asia into one holding and named it Indochina (Indochinese Federation). It comprised Cambodia, Laos (1899), the Chinese territory of Guangzhouwan (1898 until 1945), and parts of what today is Vietnam. Hanoi was capital for most of its history (1902–45). Saigon was the capital from 1887 to 1902 and again from 1945 to 1954.



The French exploited the resources in the region during their rule, and improved the health and education systems in the region. Deep divides remained between the native population and the colonists, resulting in many rebellions. During World War II, the colony was administered by the Vichy government and was under Japanese occupation until March 1945, when the Japanese overthrew the colonial regime. After the Japanese surrender, the communist Viet Minh led by Hồ Chí Minh, declared independence. France with the help of Britain took back control. All-out war, known as the First Indochina War, broke out in late 1946 between French and Viet Minh forces.

The State of Vietnam, led by former Emperor Bảo Đại, was established by the French in 1949. French failed to retake Vietnam and were soundly defeat at the Battle of Điện Biên Phủ (March to May 1954) by the Viet Minh forces using bicycles as their main form of transportation. In 1953, Laos and Cambodia proclaimed their independences. The Geneva Accord of 1954 forced the French to withdraw from Vietnam ending France's colonial rule in the region. Vietnam was then divided into two countries. In 1976, after the fall of Saigon the country sadly was unified under the communist government in North. Many of us painfully know that history all too well.





## Amateur Radio Operations

In 1950, France banned amateur radio from Indochina and FI8 was put on the DXCC "banned country" list. French Indochina was deleted from the ARRL DXCC list on December 21, 1950. France started issuing FI8 licenses again on September 1, 1954 but counted as Vietnam.

There was a little bit of information on a few of the hams. As you can see there were many and these are the ones we have QSL cards.

**FI1E M. Cazes** was professor at the French high school in Hanoi. His first call was FI1C.

**FI8AC Rene Lebon** was one of the most active amateurs from the 1930's in French Indochina. Rene was licensed in the 1920's as FI8FOK.

**FI8AD Captain Robert Gaffiot** Before FI8AD Robert was: FI3CD in 1935; FI1OD in 1936

That's all for now! Until next month!

FI1E	1920	Hanoi
FI8FOK	1920	Saigon
FI8QQ	1926	Saigon
FI8AC	1937	Hanoi
W6ODD/FI8	1948	Saigon
FI8AA	1949	Saigon
FI3AG	1951	Saigon
FI8KVA	1951	Hanoi
FI8RO	1951	Saigon
FI8AD	1952	Saigon
FI8YB	1952	Haiphong
FI8AB	1953	Saigon
FI8AH	1953	Hanoi
FI8AI	1953	Hanoi
FI8AJ	1953	Saigon
FI8AR	1953	Saigon
FI8AE	1954	Saigon
FI8AM	1954	Saigon
FI8AP	1954	Saigon
FI8AT	1954	Saigon
FI8AV	1954	Saigon
FI8AW	1954	Saigon
FI8AZ	1954	Saigon
FI8BF	1954	Saigon



## Free Tower (W6HB)

The family of W6LFE (SK) is offering the following to anyone who can come to safely remove it.

Tri-Ex HZN-354 55 ft. Motorized tower

HyGain TH-11DX Yagi

Yaesu G-1000DXA Rotator and controller

The items are installed at the QTH of W6LFE in West Hills. There is no hurry. The house will not go on the market until the spring. Stephan Shobe, W6SKS, (SoCal Tower guy) has inspected the items.

You are welcome to contact family member Lee Aurich at 510-332-6350 or [lee@aurich.com](mailto:lee@aurich.com) at your convenience.

## Antenna and Tower Maintenance (N6WT)

Kent, N6WT is performing maintenance on his antenna system. It has been known for a long time that the long SteppIR elements and EHUs for those elements have an issue on 30 and 40 meters. SteppIR finally owned up to it and now has a fix... replacing the EHU with new ones at their purchase price and installing new sweeps. Apparently the issue is pushing the tape around the sweep and the brushes that contact the tape inside the EHU. The cost is about \$500 per EHU! Also his Orion rotator had several degrees of play in it. It turns out there were several problems!

Here is the blow by blow in Kent's own words:

*I have been having fun rebuilding everything on the antenna and tower.*

*I removed the antenna off the mast and unhooked the coax and control cable from the box. All looks good.*

*I removed the EHUs. I found on the driven and 30/40 director and reflector that the brushes were worn but not evenly. When you turn the EHU over and look at the copper tape closest to you the brush for that tape is worn out and may not be touching the tape with all 4 feet, but the tape farthest from you, the brushes are about 3/4 worn out. I'm glad I am doing the replacing of all the EHUs.*

*On the tower. I have noticed that I have a lot of play/slop in the rotator. I made a video of it. <https://www.youtube.com/shorts/2lg2T5cWZMU>*

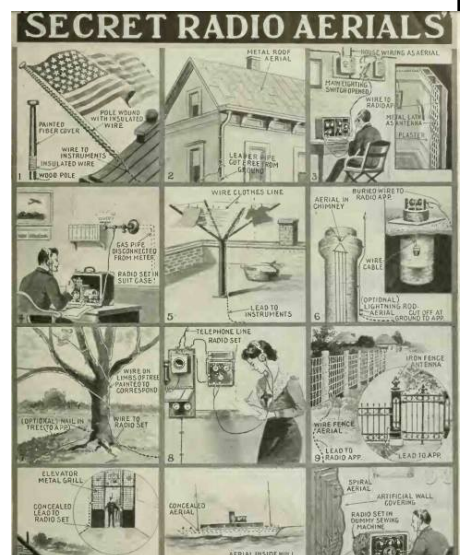
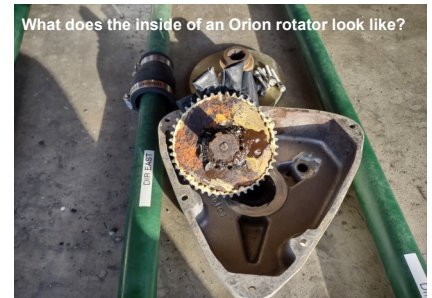
*I called M2 and they say it is the top plate. It is made out of softer metal that the gear it attaches to so the teeth on it wear out. I ordered new parts for it and they won't be here till next week some time. I guess my question should be, will it happen again? Oh well, it lasted 8 years now.*

*I took the rotator apart today. The bolt that holds the top plate that the mast sits on was broken. The top plate and the gear were both worn. Also, the seal at the top was bad, allowing water to pour in. It only would have been a matter of time before complete failure of the rotator. I'm glad I caught it now.*

*Here is a picture of the top of the gear that the plate sits on. You can see the broken bolt in the middle.*

### Answer for page 8

The patent is for a frequency hopped anti-jam communication system. The author is the actress Hedy Lemarr developed it based on 88 tones, the number of notes on a standard piano, for a communication link to torpedoes. She was a genius.





# Resource Page

## Useful Sites

**N0HR DXpedition Map**  
[www.n0hr.com/wk34/](http://www.n0hr.com/wk34/)

**The DX Zone**  
[www.dxzone.com/catalog/DX\\_Resources/](http://www.dxzone.com/catalog/DX_Resources/)

**The Daily DX**  
[www.dailydx.com/](http://www.dailydx.com/)

**Announced DX Ops**  
[www.ng3k.com/misc/adxo.html](http://www.ng3k.com/misc/adxo.html)

**DXing.info**  
[/www.dxing.info/dxpeditons/](http://www.dxing.info/dxpeditons/)

**DX 425 News**  
[www.425dxn.org/dxped/](http://www.425dxn.org/dxped/)

**DX Italia DX News**  
[www.marioi2mqp.it](http://www.marioi2mqp.it)

**DH9SB Weekly DX Calendar**  
<http://www.dx-info.de>

**Southern California Contest Club**  
<http://www.socalcontestclub.org/>

**Sixth District QSL Bureau**  
[www.QSLBureau.org](http://www.QSLBureau.org)

## Propagation

For those not watching cycle 25 we just hit 234 SFI and stayed above 200 for 10 days! Looking at the chart we see that we are already rivaling the last peak. This might be a biggie!

**Strongest Cycle Ever?**  
**Biggest Cycle?**

**Understanding Indices - K9LA**

**What to Expect During the Rising Years of Solar Cycle 25 - You-Tube**

**The Termination Event | Space-weather.com**

## ARRL VE Exam Sessions

To find an ARRL exam sessions in your area go to the website:

<http://www.arrl.org/find-an-amateur-radio-license-exam-session>

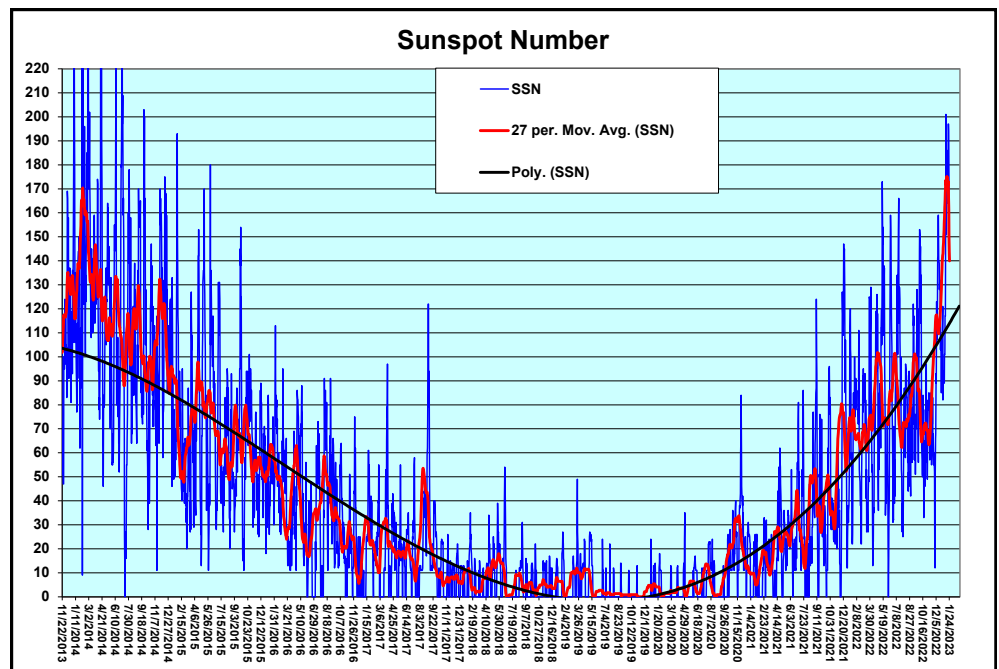
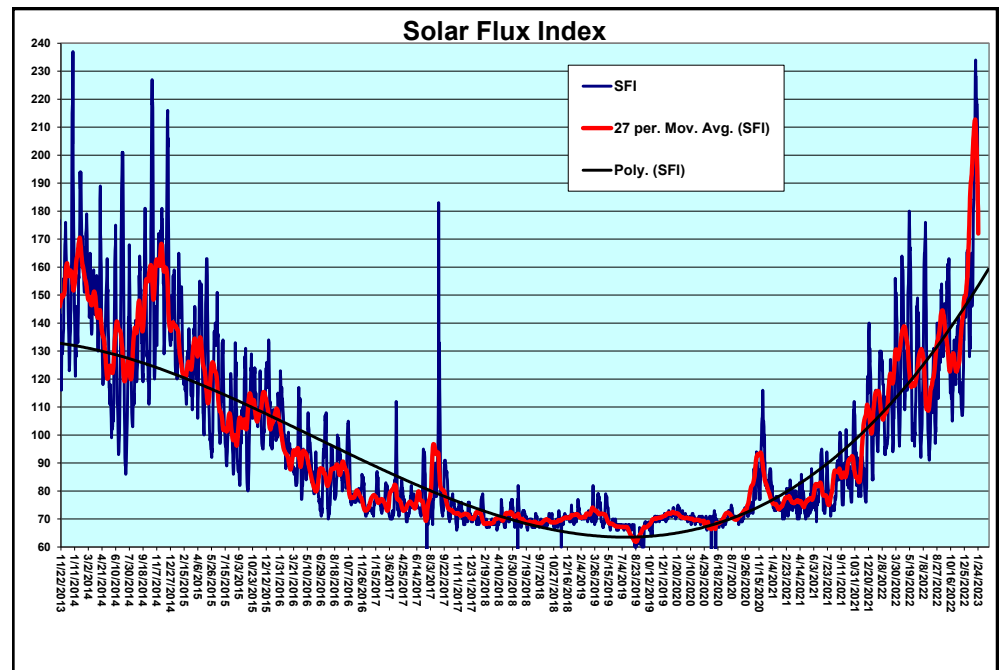
## Club and Conduct Sites

### Officer Guidelines

[http://www.scdxc.org/download/Officer\\_Guidelines.pdf](http://www.scdxc.org/download/Officer_Guidelines.pdf)

### DX Code of Conduct

<http://www.dx-code.org/>







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